

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101727, 358A
Source: JFW16
Date Processed by STIC: 4-5-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/727,358A

DATE: 04/05/2006
TIME: 09:50:31

Input Set : A:\1216-1-006CIPSEQLISTREVISEDDEDTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

4 <110> APPLICANT: Kolesnick, Richard N.
5 King, Hong-Mei R.
7 <120> TITLE OF INVENTION: Kinase Suppressor of Ras Inactivation
8 for Therapy of Ras Mediated Tumorigenesis
11 <130> FILE REFERENCE: 1216-1-006CIP
13 <140> CURRENT APPLICATION NUMBER: 10/727,358A
14 <141> CURRENT FILING DATE: 2003-12-03
16 <150> PRIOR APPLICATION NUMBER: 60/384,228
17 <151> PRIOR FILING DATE: 2002-05-30
19 <150> PRIOR APPLICATION NUMBER: 60/460,023
20 <151> PRIOR FILING DATE: 2003-04-03
22 <150> PRIOR APPLICATION NUMBER: PCT/US03/16961
23 <151> PRIOR FILING DATE: 2003-05-29
25 <160> NUMBER OF SEQ ID NOS: 56
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 120
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <400> SEQUENCE: 1
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36 gtgtctaacg acctcacaca gcaggagatc cggaccctag aggcaaagct ggtgaaatac 120
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 41
41 <212> TYPE: PRT
42 <213> ORGANISM: Homo sapiens
44 <400> SEQUENCE: 2
45 Leu Gln Lys Leu Ile Asp Ile Ser Ile Gly Ser Leu Arg Gly Leu Arg
46 1 5 10 15
47 Thr Lys Cys Ser Val Ser Asn Asp Leu Thr Gln Gln Glu Ile Arg Thr
48 20 25 30
49 Leu Glu Ala Lys Leu Val Lys Tyr Ile
50 35 40
53 <210> SEQ ID NO: 3
54 <211> LENGTH: 19
55 <212> TYPE: DNA
56 <213> ORGANISM: Homo sapiens
58 <400> SEQUENCE: 3
59 ggcaagtctgc gcgggctgc
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 18
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens

Does Not Comply
Corrected Diskette Needed
(Pg. 6)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/727,358A

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Input Set : A:\1216-1-006CIPSEQLISTREVISEDDEDTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

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 67 tcagtgtcta acgaccc 18
 69 <210> SEQ ID NO: 5
 70 <211> LENGTH: 18
 71 <212> TYPE: DNA
 72 <213> ORGANISM: Homo sapiens
 74 <400> SEQUENCE: 5
 75 cggaccctag aggcaaag 18
 77 <210> SEQ ID NO: 6
 78 <211> LENGTH: 19
 79 <212> TYPE: DNA
 80 <213> ORGANISM: Artificial Sequence
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: antisense oligonucleotide
 85 <400> SEQUENCE: 6
 86 cagcccgcbc agactgccc 19
 88 <210> SEQ ID NO: 7
 89 <211> LENGTH: 18
 90 <212> TYPE: DNA
 91 <213> ORGANISM: Artificial Sequence
 93 <220> FEATURE:
 94 <223> OTHER INFORMATION: antisense oligonucleotide
 96 <400> SEQUENCE: 7
 97 gaggtcggtt gacactga 18
 99 <210> SEQ ID NO: 8
 100 <211> LENGTH: 16
 101 <212> TYPE: DNA
 102 <213> ORGANISM: Artificial Sequence
 104 <220> FEATURE:
 105 <223> OTHER INFORMATION: antisense oligonucleotide
 107 <400> SEQUENCE: 8
 108 ctttgcctct agggtc 16
 110 <210> SEQ ID NO: 9
 111 <211> LENGTH: 873
 112 <212> TYPE: PRT
 113 <213> ORGANISM: Mus musculus
 115 <400> SEQUENCE: 9
 116 Met Asp Arg Ala Ala Leu Arg Ala Ala Ala Met Gly Glu Lys Lys Glu
 117 1 5 10 15
 118 Gly Gly Gly Gly Ala Ala Ala Asp Gly Gly Ala Gly Ala Ala Val
 119 20 25 30
 120 Ser Arg Ala Leu Gln Gln Cys Gly Gln Leu Gln Lys Leu Ile Asp Ile
 121 35 40 45
 122 Ser Ile Gly Ser Leu Arg Gly Leu Arg Thr Lys Cys Ser Val Ser Asn
 123 50 55 60
 124 Asp Leu Thr Gln Gln Glu Ile Arg Thr Leu Glu Ala Lys Leu Val Lys
 125 65 70 75 80
 126 Tyr Ile Cys Lys Gln Gln Ser Lys Leu Ser Val Thr Pro Ser Asp
 127 85 90 95

RAW SEQUENCE LISTING
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Input Set : A:\1216-1-006CIPSEQLISTREVISEDDEDTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

128 Arg Thr Ala Glu Leu Asn Ser Tyr Pro Arg Phe Ser Asp Trp Leu Tyr
129 100 105 110
130 Ile Phe Asn Val Arg Pro Glu Val Val Gln Glu Ile Pro Gln Glu Leu
131 115 120 125
132 Thr Leu Asp Ala Leu Leu Glu Met Asp Glu Ala Lys Ala Lys Glu Met
133 130 135 140
134 Leu Arg Arg Trp Gly Ala Ser Thr Glu Glu Cys Ser Arg Leu Gln Gln
135 145 150 155 160
136 Ala Leu Thr Cys Leu Arg Lys Val Thr Gly Leu Gly Gly Glu His Lys
137 165 170 175
138 Met Asp Ser Gly Trp Ser Ser Thr Asp Ala Arg Asp Ser Ser Leu Gly
139 180 185 190
140 Pro Pro Met Asp Met Leu Ser Ser Leu Gly Arg Ala Gly Ala Ser Thr
141 195 200 205
142 Gln Gly Pro Arg Ser Ile Ser Val Ser Ala Leu Pro Ala Ser Asp Ser
143 210 215 220
144 Pro Val Pro Gly Leu Ser Glu Gly Leu Ser Asp Ser Cys Ile Pro Leu
145 225 230 235 240
146 His Thr Ser Gly Arg Leu Thr Pro Arg Ala Leu His Ser Phe Ile Thr
147 245 250 255
148 Pro Pro Thr Thr Pro Gln Leu Arg Arg His Ala Lys Leu Lys Pro Pro
149 260 265 270
150 Arg Thr Pro Pro Pro Ser Arg Lys Val Phe Gln Leu Leu Pro Ser
151 275 280 285
152 Phe Pro Thr Leu Thr Arg Ser Lys Ser His Glu Ser Gln Leu Gly Asn
153 290 295 300
154 Arg Ile Asp Asp Val Thr Pro Met Lys Phe Glu Leu Pro His Gly Ser
155 305 310 315 320
156 Pro Gln Leu Val Arg Arg Asp Ile Gly Leu Ser Val Thr His Arg Phe
157 325 330 335
158 Ser Thr Lys Ser Trp Leu Ser Gln Val Cys Asn Val Cys Gln Lys Ser
159 340 345 350
160 Met Ile Phe Gly Val Lys Cys Lys His Cys Arg Leu Lys Cys His Asn
161 355 360 365
162 Lys Cys Thr Lys Glu Ala Pro Ala Cys Arg Ile Thr Phe Leu Pro Leu
163 370 375 380
164 Ala Arg Leu Arg Arg Thr Glu Ser Val Pro Ser Asp Ile Asn Asn Pro
165 385 390 395 400
166 Val Asp Arg Ala Ala Glu Pro His Phe Gly Thr Leu Pro Lys Ala Leu
167 405 410 415
168 Thr Lys Lys Glu His Pro Pro Ala Met Asn Leu Asp Ser Ser Ser Asn
169 420 425 430
170 Pro Ser Ser Thr Thr Ser Ser Thr Pro Ser Ser Pro Ala Pro Phe Leu
171 435 440 445
172 Thr Ser Ser Asn Pro Ser Ser Ala Thr Thr Pro Pro Asn Pro Ser Pro
173 450 455 460
174 Gly Gln Arg Asp Ser Arg Phe Ser Phe Pro Asp Ile Ser Ala Cys Ser
175 465 470 475 480
176 Gln Ala Ala Pro Leu Ser Ser Thr Ala Asp Ser Thr Arg Leu Asp Asp

RAW SEQUENCE LISTING
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TIME: 09:50:31

Input Set : A:\1216-1-006CIPSEQLISTREVISEDDEDTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

177	485	490	495
178	Gln Pro Lys Thr Asp Val Leu Gly Val His Glu Ala Glu Ala Glu Glu		
179	500	505	510
180	Pro Glu Ala Gly Lys Ser Glu Ala Glu Asp Asp Glu Glu Asp Glu Val		
181	515	520	525
182	Asp Asp Leu Pro Ser Ser Arg Arg Pro Trp Arg Gly Pro Ile Ser Arg		
183	530	535	540
184	Lys Ala Ser Gln Thr Ser Val Tyr Leu Gln Glu Trp Asp Ile Pro Phe		
185	545	550	555
186	Glu Gln Val Glu Leu Gly Glu Pro Ile Gly Gln Gly Arg Trp Gly Arg		
187	565	570	575
188	Val His Arg Gly Arg Trp His Gly Glu Val Ala Ile Arg Leu Leu Glu		
189	580	585	590
190	Met Asp Gly His Asn Gln Asp His Leu Lys Leu Phe Lys Lys Glu Val		
191	595	600	605
192	Met Asn Tyr Arg Gln Thr Arg His Glu Asn Val Val Leu Phe Met Gly		
193	610	615	620
194	Ala Cys Met Asn Pro Pro His Leu Ala Ile Ile Thr Ser Phe Cys Lys		
195	625	630	635
196	Gly Arg Thr Leu His Ser Phe Val Arg Asp Pro Lys Thr Ser Leu Asp		
197	645	650	655
198	Ile Asn Lys Thr Arg Gln Ile Ala Gln Glu Ile Ile Lys Gly Met Gly		
199	660	665	670
200	Tyr Leu His Ala Lys Gly Ile Val His Lys Asp Leu Lys Ser Lys Asn		
201	675	680	685
202	Val Phe Tyr Asp Asn Gly Lys Val Val Ile Thr Asp Phe Gly Leu Phe		
203	690	695	700
204	Gly Ile Ser Gly Val Val Arg Glu Glu Arg Arg Glu Asn Gln Leu Lys		
205	705	710	715
206	720	725	730
207	Leu Ser His Asp Trp Leu Cys Tyr Leu Ala Pro Glu Ile Val Arg Glu		
208	735	740	745
209	750	755	760
210	Met Ile Pro Gly Arg Asp Glu Asp Gln Leu Pro Phe Ser Lys Ala Ala		
211	765	770	775
212	Asp Val Tyr Ala Phe Gly Thr Val Trp Tyr Glu Leu Gln Ala Arg Asp		
213	780	785	790
214	Trp Pro Phe Lys His Gln Pro Ala Glu Ala Leu Ile Trp Gln Ile Gly		
215	795	800	805
216	Ser Gly Glu Gly Val Arg Arg Val Leu Ala Ser Val Ser Leu Gly Lys		
217	810	815	820
218	Glu Val Gly Glu Ile Leu Ser Ala Cys Trp Ala Phe Asp Leu Gln Glu		
219	825	830	835
220	Arg Pro Ser Phe Ser Leu Leu Met Asp Met Leu Glu Arg Leu Pro Lys		
221	840	845	850
222	Leu Asn Arg Arg Leu Ser His Pro Gly His Phe Trp Lys Ser Ala Asp		
223	855	860	865
224	Ile Asn Ser Ser Lys Val Met Pro Arg Phe Glu Arg Phe Gly Leu Gly		
225	870		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/727,358A

DATE: 04/05/2006

TIME: 09:50:31

Input Set : A:\1216-1-006CIPSEQLISTREVISED.CEDTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

228 <210> SEQ ID NO: 10
 229 <211> LENGTH: 866
 230 <212> TYPE: PRT
 231 <213> ORGANISM: Homo sapiens
 233 <400> SEQUENCE: 10
 234 Met Gly Glu Lys Glu Gly Gly Gly Gly Asp Ala Ala Ala Ala Glu
 235 1 5 10 15
 236 Gly Gly Ala Gly Ala Ala Ala Ser Arg Ala Leu Gln Gln Cys Gly Gln
 237 20 25 30
 238 Leu Gln Lys Leu Ile Asp Ile Ser Ile Gly Ser Leu Arg Gly Leu Arg
 239 35 40 45
 240 Thr Lys Cys Ala Val Ser Asn Asp Leu Thr Gln Gln Glu Ile Arg Thr
 241 50 55 60
 242 Leu Glu Ala Lys Leu Val Arg Tyr Ile Cys Lys Gln Arg Gln Cys Lys
 243 65 70 75 80
 244 Leu Ser Val Ala Pro Gly Glu Arg Thr Pro Glu Leu Asn Ser Tyr Pro
 245 85 90 95
 246 Arg Phe Ser Asp Trp Leu Tyr Thr Phe Asn Val Arg Pro Glu Val Val
 247 100 105 110
 248 Gln Glu Ile Pro Arg Asp Leu Thr Leu Asp Ala Leu Leu Glu Met Asn
 249 115 120 125
 250 Glu Ala Lys Val Lys Glu Thr Leu Arg Arg Cys Gly Ala Ser Gly Asp
 251 130 135 140
 252 Glu Cys Gly Arg Leu Gln Tyr Ala Leu Thr Cys Leu Arg Lys Val Thr
 253 145 150 155 160
 254 Gly Leu Gly Gly Glu His Lys Glu Asp Ser Ser Trp Ser Ser Leu Asp
 255 165 170 175
 256 Ala Arg Arg Glu Ser Gly Ser Gly Pro Ser Thr Asp Thr Leu Ser Ala
 257 180 185 190
 258 Ala Ser Leu Pro Trp Pro Pro Gly Ser Ser Gln Leu Gly Arg Ala Gly
 259 195 200 205
 260 Asn Ser Ala Gln Gly Pro Arg Ser Ile Ser Val Ser Ala Leu Pro Ala
 261 210 215 220
 262 Ser Asp Ser Pro Thr Pro Ser Phe Ser Glu Gly Leu Ser Asp Thr Cys
 263 225 230 235 240
 264 Ile Pro Leu His Ala Ser Gly Arg Leu Thr Pro Arg Ala Leu His Ser
 265 245 250 255
 266 Phe Ile Thr Pro Pro Thr Pro Gln Leu Arg Arg His Thr Lys Leu
 267 260 265 270
 268 Lys Pro Pro Arg Thr Pro Pro Pro Ser Arg Lys Val Phe Gln Leu
 269 275 280 285
 270 Leu Pro Ser Phe Pro Thr Leu Thr Arg Arg Lys Ser His Glu Ser Gln
 271 290 295 300
 272 Leu Gly Asn Arg Ile Asp Asp Val Ser Ser Met Arg Phe Asp Leu Ser
 273 305 310 315 320
 274 His Gly Ser Pro Gln Met Val Arg Arg Asp Ile Gly Leu Ser Val Thr
 275 325 330 335
 276 His Arg Phe Ser Thr Lys Ser Trp Leu Ser Gln Val Cys His Val Cys
 277 340 345 350

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<210> 23

<211> 18

<212> DNA

<213> Artificial sequence

<220> 23

<223> 23

atagagccca ccgcattcc

Pls explain



18

pls insert section <220>-

<223>, whenever <213>
response is artificial or
Unknown!

See error explanation
on page 7.

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 04/05/2006
PATENT APPLICATION: US/10/727,358A TIME: 09:50:32

Input Set : A:\1216-1-006CIPSEQLISTREVISEDCTEXT.TXT
Output Set: N:\CRF4\04052006\J727358A.raw

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:23

VERIFICATION SUMMARY

DATE: 04/05/2006

PATENT APPLICATION: US/10/727,358A

TIME: 09:50:32

Input Set : A:\1216-1-006CIPSEQLISTREVISEDCTEXT.TXT

Output Set: N:\CRF4\04052006\J727358A.raw

L:604 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:23, <213>

ORGANISM:Artificial sequence

L:604 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:23, <213>

ORGANISM:Artificial sequence

L:604 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:23, Line#:604